

**HIGH THROUGHPUT METHOD AND SYSTEM FOR
SCREENING CANDIDATE COMPOUNDS FOR ACTIVITY
AGAINST TARGET ION CHANNELS**

Abstract of the Disclosure

Drug candidate screening methods are applied to discover compounds with activity against ion channel targets. The method may include modulating the transmembrane potential of host cells in a plurality of sample wells with a repetitive application of electric fields so as to set the transmembrane potential to a level corresponding to a pre-selected voltage dependent state of a target ion channel.

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